

Applicant(s):

Francis J. Kronzer

Docket

19673

Serial No.:

10/749,687

Group:

Filed:

December 31, 2003

Examiner:

			U.S. PATENT	DOCUMENTS			
Initials		Dác. No.	Date	Name	Class	Subclass	Filing Date
Spe	A1	4,021,591	5/3/1977	DeVries et al.			
Spc	A2	4,107,365	8/15/1978	Reed et al.			
Spc	A3	4,351,871	9/28/1982	Lewis et al.			
Spc	A4	4,383,878	5/17/1983	Young et al.		_	
SPC	A5	4,496,618	1/29/1985	Pernicano			
SPC	A6	4,517,237	5/14/1985	Pernicano			
SPC	A7	4,664,735	5/12/1987	Pernicano			
SIC	A8	4,773,953	9/27/1988	Hare			
SPC	A9	4,966,815	10/30/1990	Hare			
SPC	A10	4,980,224	12/25/1990	Hare			'1
SPE	A11	5,006,502	4/9/1991	Fujimura et al.	1		
SPC	A12	5,139,917	8/18/1992	Hare			
SPC	A13	5,141,915	8/25/1992	Roenigk et al.			
SPC	A14	5,236,801	8/17/1993	Hare			
SPC	A15	5,242,739	9/7/1993	Kronzer et al.	 		
SAC	A16	5,264,279	11/23/1993	Imamura et al.	1		
SPC	A17	5,271,990	12/21/1993	Kronzer et al.	†		7 7
SPC	A18	5,318,943	6/7/1994	Ueno et al.	 		
28c	A19	5,342,739	8/30/1994	Katou et al.	_	† —	
Spc	A20	5,356,853	10/18/1994	Ueno et al.	1		
SPC	A21	5,484,644	1/16/1996	Imamura et al.	1		
SPC	A22	5,501,902	3/26/1996	Kronzer	1-	-	
Spe	A23	5,508,105	4/16/1996	Orensteen et al.	+		
SPC	A24	5,614,345	3/25/1997	Gumbiowski et al.	1_		
SPC	A25	5,647,935	7/15/1997	Hoshino et al.	 		
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Spc	A26	5,716,900	2/10/1998	Kronzer et al.			
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<u> </u>			8/25/1998	Kronzer	+		+
SPC	A29	5,798,179 5,876,836	3/2/1999	Imamura et al.	+		
3/c	A30	5,880,065	3/9/1999	Hayashi et al.	+==		
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SPC	A32	5,898,018	4/27/1999	Hirano et al.	+		
SPC	A33	5,948,586	9/7/1999	Hare	+		
SPC	A34	 		<u> </u>	$+ \equiv$	 ~	
Spc	A35	6,033,739	3/7/2000 7/4/2000	Kronzer Hare et al.	+	+=	
SPC	A36	6,083,656	7/11/2000	Hare et al.		 	

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SPC	A38	6,096,475	8/1/2000	Hare et al.)	1		
SPC	A39	6,177,187	1/23/2001	Niemoller et al.				
spc	A40	6,180,219	1/30/2001	Hoshino et al.				
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SPC	A42	6,210,794	4/3/2001	Nakamura	(
CBC	A43	6,214,149	4/10/2001	Nakano et al.			•	
SPC	A44	6,232,267	5/15/2001	Oshima et al.				
SPC	A45	6,232,268	5/15/2001	Narita et al.				
180	A46	6,245,710	6/12/2001	Hare et al.				
SPC	A47	6,251,824	6/26/2001	Ueno et al.				
SAC	A48	6,294,307	9/25/2001	Hare et al.	(
QC	A49	6,335,307	1/1/2002	Imai et al.				
Spc	A50	6,346,313	2/12/2002	Cook				•
SPC	A51	6,358,660	3/19/2002	Agler et al.		·		
SPC	A52	6,383,710	5/7/2002	Hare et al.	_			
Spc	A53	6,395,375	5/28/2002	Imamura et al.				
Spc	A54	6,410,200	6/25/2002	Williams et al.	_			
SPC	A55	6,423,466	7/23/2002	Hare et al.				
Spe	A56	6,428,878	8/6/2002	Kronzer		·		•
SPC	A57	6,465,393	10/15/2002	Nakano et al.		<u> </u>		
Spc	A58	6,482,285	11/19/2002	Cross				
SPC	A59	6,497,781	12/24/2002	Dalvey et al.				
Spc	A60	6,509,131	1/21/2003	Hare et al.				
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SPC	A62	2002/0146544	10/10/2002	Kronzer				
SPC	A63	2002/0153110	10/24/2002	Yamaguchi et al.	_	~		
	<u> </u>	<u> </u>	Foreign Pate	nt Documents				
·							Tra	ıns.
Initials	 	Doc. No.	Date	Country	Class	Subclass	Yes	No
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SPC	A3	EP 1 219 460 A2	7/3/2002	EP	_			
SPC	A4	EP 1 020 299 B1	4/2/2003	EP	_			
SPC	A5	EP 1 316 435 A1	6/4/2003	EP				
Spc	A6	EP 1 340 626 A1	9/3/2003	EP	_			
SPC	A7	EP 1 344 653 A1	9/17/2003	EP	$\overline{}$	-		<u> </u>
Spe	A8	FR 2 442 721 A	8/1/1980	FR w/English abstract	~			X
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Spc	A13	WO 93/21561	10/28/1993	WO-PCT				
SPC.	A14	WO 97/33763	9/18/1997	WO-PCT				
SPC	A15	WO 99/25917	5/27/1999	WO-PCT)		
SPC	A16	WO 00/59733	10/12/2000	WO-PCT				
SPC	A17_	WO 00/64685	11/2/2000	WO-PCT		-		
CPC	A18	WO 00/73570	12/7/2000	WO-PCT				
SPC	A19	WO 01/23664	4/5/2001	WO-PCT	_			
1PC	A20	WO 02/36353	5/10/2002	WO-PCT				
The	A21	WO 02/55311	7/18/2002	WO-PCT				
SPC	A22	WO 03/06736	1/23/2003	WO-PCT				
			Other Do	cuments		·		
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SPE	A1	ASTM Designation: E Derived from Naval S	E-28-99, "Stan Stores by Ring	dard Test Methods for -and-Ball Apparatus",	r Softer Decem	ning Point nber 1999,	of Resi pp. 1-6	ins 3.
Spc	A2 -	ASTM Designation: I Thermoplastics by E		tandard Test Method ometer", November 20			es of	

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SPC	A2	4,235,657	11/	25/1980	Greenman et al.	-	-			
SPC	A3	4,775,657	10/	04/1988	Harrison et al.		<u> </u>			
Spc	A4	5,132,277	07/	21/1992	Kaszczuk et al.					- · ·
Spc	A5	5,263,781	11/	23/1993	Mima et al.		_			
SPC	A6	5,310,589	05/	10/1994	Nagashima		_			
(pc	A7	5,332,713	07/	26/1994	Oldfield et al.	-				
SPC	A8	5,444,037	08/	22/1995	Imai et al.		<u> </u>			
(PC	A9	5,501,902	03/	26/1996	Kronzer	_	_			
SPC	A10	5,571,766	11/	05/1996	Imai et al.					
SPC	A11	5,891,824	04/	06/1999	Simpson et al.					
292	A12	5,897,735	04/	27/1999	Peskin	_	~ T			
SPC	A13	6,017,636	01/	25/2000	Tada et al.	_		<u> </u>		
Spc	A14	6,043,194	03/	28/2000	Saito et al.	-				
SPC	A15	6,083,872	07/	04/2000	Adkins	-	_			
Spc	A16	6,290,798	09/	28/2001	Onishi et al.	_	-		,	
SPC	A17	6,593,406	07/	15/2003	Sargeant et al.		<u> </u>	<u> </u>		
SPC	A18	6,613,412	09/	02/2003	Dressler	_				•
				Foreign Pa	tent Documents		-			
									·Tra	ans.
Initials		Doc. No.		Date	Country		Class	Subclass	Yes	No
SPC	A1	EP 1 232 874	A 1	08/21/2002	EP			_		
spe	A2	JP 01208192	4	08/22/1989	Japan(English Abstr	act)		_		X
Spr	А3	JP 03010879A	4	01/18/1991	Japan(English Abstr	act)		1		X
SPC	A4	JP 06312573A	١	11/08/1994	Japan(English Abstr			_		Х
Spc	A5	WO 01/12448		02/22/2001	WO/PCT					
				Other	Documents					
Initials		Author, Title, Da	te, P	ages, etc.				,		
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	A1							
	A2			L				
			Foreign Pate	nt Documents				
							Tra	ans.
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Spe	A1	GB 2,084,931A	4/21/1982	GB		_		
SPC	A2	GB 2,147,614A	5/15/1985	GB				
	A3						<u> </u>	<u></u>
			Other Do	ocuments				
Initials		Author, Title, Date, P	Pages, etc.					
	A1							
	A2							

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Spc	A2	3,616,176	10/26/1971	Jackimowicz			
	A3	3,790,439	2/5/1974	LaPerre et al.	_		
SPC	A4	3,872,040	3/18/1975	Mollohan et al.	_	-	
Spc	A5	3,922,435	11/25/1975	Asnes			
392	A6	4,167,414	9/11/1979	Morgan			
Cpc	A7	4,224,358	9/23/1980	Hare ·	_		
SPC	A8	4,240,807	12/23/1980	Kronzer			
SPC	A9	4,303,717	12/1/1981	Andrews		_	
SPC	A10	4,322,467	3/30/1982	Heimbach et al.			
Spe	A11	4,399,209	8/16/1983	Sanders et al.			<i>.</i>
SPC	A12	4,536,434	8/20/1985	Magnotta			٠
Spc	A13	4,548,857	10/22/1985	Galante			
SPC	A14	4,757,047	7/12/1988	Kosaka			
Şβc	A15	4,758,952	7/19/1988	Harris, Jr. et al.			
Spc	A16	4,786,349	11/22/1988	Mahn, Sr.			
Spc	A17	4,863,781	9/5/1989	Kronzer			
Spc	A18	4,929,501	5/29/1990	Okada et al.			
₩c.	A19	5,019,475	5/28/1991	Higashiyama et al.		_	
Spc	A20	5,028,028	7/2/1991	Yamada et al.			`
Spc	A21	5,053,267	10/1/1991	Ide et al.			
Spc	A22	5,059,580	10/22/1991	Shibata et al.			
Spc	A23	5,064,743	11/12/1991	Koshizuka et al.			
ζρς	A24	5,087,527	2/11/1992	Shimura et al.		_	
Spc	A25	5,110,389	5/5/1992	Hiyoshi et al.	<u> </u>		
SPC	A26	5,151,326	9/29/1992	Matsuda et al.			
SPC	A27	5,248,543	9/28/1993	Yamaguchi et al.			
SPC	A28	5,252,531	10/12/1993	Yasuda et al.			
SPC	A29	5,252,533	10/12/1993	Yasuda et al.			
SPC	A30	5,286,521	2/15/1994	Matsuda et al.			ļ
SPC	A31	5,334,439	8/2/1994	Kawaguchi et al.			
Spc	A32	5,338,603	8/16/1994	Mahn, Sr. et al.			
SPC	A33	5,362,703	11/8/1994	Kawaski et al.	_		
SPC	A34	5,366,251	11/22/1994	Brandt et al.	_		
SPC	A35	5,372,987	12/13/1994	Fisch et al.			
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Spc	A38	5,407,724	4/18/1995	Mimura et al.	_		·]
Spe	A39	5,413,841	5/9/1995	Mahn, Sr. et al.	_	_	
Spc	A40	5,419,944	5/30/1995	Sammis	_		
Spc	A41	5,427,997	6/27/1995	Oshima et al.	_		
Spc	A42	5,431,501	7/11/1995	Hale et al.	,-		
Spc	A43	5,432,258	7/11/1995	Yoshirmura	=	·	
SPC	A44	5,616,155	4/1/1997	Kronzer		_	
SPC	A45	5,660,928	8/26/1997	Stokes et al.			
Spc	A46	5,670,448	9/23/1997	Kometani			
Spc	A47	5,677,049	10/14/1997	Torii	_		
SPC	A48	5,707,925	1/13/1998	Akada et al.	_		
Spc	A49	5,716,477	2/10/1998	Yamaguchi et al.			
Spc	A50	5,770,268	6/23/1998	Kuo et al.	. —		
SPC	A51	5,798,179	8/25/1998	Kronzer		_	
SPC	A52	5,846,367	12/8/1998	Omote et al.			
Spc	A53	5,861,355	1/19/1999	Olson et al.	_		
SPC	A54	5,879,813	3/9/1999	Tanaka et al.	_		
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(pc	A60	5,981,045	11/9/1999	Kuwabara et al.			
SPC	A61	5,981,077	11/9/1999	Taniguchi	_		
SPC	A62	6,020,397	2/1/2000	Matzinger			
SPC	A63	6,054,223	4/25/2000	Tsuchiya et al.	_		
SPC	A64	6,066,387	5/23/2000	Ueda et al.	_		
Spc	A65	6,071,368	6/6/2000	Boyd et al.)	_	
SPC	A66	6,103,364	8/15/2000	Harris et al.			
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SPC	A68	6,139,672	10/31/2000	Sato et al.			
SPC	A69	6,265,053	7/24/2001	Kronzer et al.	_		
Spc	A70	6,277,229	8/21/2001	Popat et al.			
292	A71	6,281,166	8/28/2001	Kronzer			
SPC	A72	6,358,600	3/19/2002	Hayashi et al.			
SPC	A73	6,432,549	8/13/2002	Kronzer			
SPC	A74	6,450,633	9/17/2002	Kronzer			
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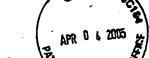
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Spc	A78	2003/0008116	1/9/2003	Williams et al.	_	رسی		
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Spc	A2	EP 0842786 A1	5/20/1998	EP			,	
Spc	А3	EP 0933226 A2	8/4/1999	EP				
Spc	A4	GB 1487599	10/5/1977	GB			ļ	ļ
SPC	A5	GB 2243332 A	10/30/1991	GB			ļ	· · · · ·
SPC	A6	WO 91/06433	5/16/1991	WO-PCT				ļ
Spc	A7	WO 92/22857	12/23/1992	WO-PCT			<u>.</u>	:
SPC	A8	WO 95/08419	3/30/1995	WO-PCT			<u> </u>	
SPC.	A9	WO 96/10491	4/11/1996	WO-PCT			<u> </u>	ļ
SPC	A10	WO 97/01448	1/16/1997	WO-PCT				
SPC	A11	WO 01/03941	1/18/2001	WO-PCT		<u> </u>		<u> </u>
SPC	A12	WO 01/17792	3/15/2001	WO-PCT				
spc	A13	WO 01/62514	8/30/2001	WO-PCT				<u> </u>
-			Other Do	cuments		·		
Initials		Author, Title, Date, P	ages, etc.	<u> </u>				
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SPC	A1	2002/102391 A1	8/1/2002	Kronzer	_				
SPC	A2	2003/021962 A1	1/30/2003	Mukherjee et al.	_				
÷.,	A3	4							
			Foreign Pate	ent Documents					
							Trans.		
Initials		Doc. No.	Date	Country	Class	Subclass	Yes	No	
SPC	A1	WO 98/43821	10/8/1998	WO-PCT	_				
	A2								
			Other D	ocuments					
Initials		Author, Title, Date, P	ages, etc.						
	A1	,						•	
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